



sensors



an Open Access Journal by MDPI

Innovative Approaches in 3D Sensing and Imaging Technologies for Cultural Heritage

Guest Editors:

Dr. Antonia Spano

Dr. Valentina Bonora

Dr. Giulia Sammartano

Dr. Mattia Previtali

Deadline for manuscript
submissions:

31 May 2024

Message from the Guest Editors

Cutting-edge technologies and multiple sensors are used in large-scale surveying projects to document cultural heritage sites and items in 3D. This improves preservation and knowledge of historical artifacts and buildings.

Research and guidelines have improved over time, emphasizing the importance of point clouds as a standard for 3D data and combining data from multiple sensors.

Different types of point cloud models achieve high resolution and accuracy for representation, enabling the creation of digital twins.

Digitization results are reliable and widely shared, benefiting interdisciplinary contexts and conservation efforts. Cultural heritage also drives social and economic development.

This Special Issue collects innovative contributions from the CIPA 2023 conference in Florence, focusing on technology's role in supporting cultural heritage conservation.

Expected contributions include advancements in surveying methodologies, techniques for capturing heritage, digitization at various scales, multi-sensor data acquisition, integrating geophysical survey techniques, and advanced cloud management approaches using artificial intelligence.



mdpi.com/si/190286

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)